

Inspection Report with SI&A Data

Structure Description: 210.96 Foot - 3 Span Steel continuous Frame (except frame culverts)
2 District: 08 **3 County:** Pulaski **16 Latitude:** 36°56'29.00" **7 Longitude:** 84°34'47.00"
7 Facility Carried: KY-804 **Milepoint:** 2.230
6A Feature Intersected: NS (CNO&TP) SYSTEM
9 Location: 0.9 MILE NW OF US 27

NBI	X
Element	X
Fracture Critical	
Underwater	
Special	

NBI CONDITION RATINGS			
58 Deck:	6	61 Channel:	N
59 Superstructure:	6	62 Culvert:	N
60 Substructure:	5	Sufficiency Rating:	32.7

GEOMETRIC DATA		
48 Max Length Span:		94.160 ft
49 Structure Length:		210.958 ft
32 Approach Roadway:		16.076 ft
33 Median:		(0) No Median
34 Skew:		40°
35 Flare:		No Flare
50A Curb/Sidewalk Width L:		1.000 ft
50B Curb/Sidewalk Width R:		1.000 ft
47 Horiz. Clearance:		21.982 ft
51 Width Curb to Curb:		21.982 ft
52 Width Out to Out:		21.982 ft

DESIGN	
Substandard:	No
Fracture Critical:	No FC Details
43A Main Span Material:	(4) Steel Continuous
43B Main Span Design:	(07) Frame
45 Number of Spans Main:	3
44A Approach Span Material:	Not Applicable
44B Approach Span Design:	Not Applicable
46 Number of Approach Spans:	0
107 Deck Type:	(1) Concrete-Cast-in-Place
108A Wearing Surface:	(3) Latex Concrete/Similar
108B Membrane:	(0) None
108C Deck Protection:	(0) None
Overlay Y/N:	Yes
Overlay Type:	Latex
Overlay Thickness:	1.500 in
Overlay Date:	

ADMINISTRATIVE		
27 Year Built:		1962
106 Year Reconstructed:		0
42A Type of Service On:		(1) Highway
42B Type of Service Under:		(2) Railroad
37 Historical Significance:		(5) Not Eligible
21 Maintenance Responsibility:		(01) State Hwy Agency
22 Owner:		(01) State Hwy Agency
101 Parallel Structure:		(N) No II Structure Exists

APPRAISAL		
36A Bridge Railings:		(0) Substandard
36B Transitions:		(0) Substandard
36C Approach Guardrail:		(1) Meets Standards
36D Approach Guardrail Ends:		(1) Meets Standards
71 Waterway Adequacy:		(N) Not Applicable
72 Approach Alignment:		(6) Equal Minimum Crit
113 Scour Critical:		(N) Not over Waterway
Recommended Scour Critical:		(N) Not over Waterway

CLEARANCES		
10 Vert. Clearance:		99.999 ft
53 Min. Vert. Clearance Over:		99.999 ft
54A Vert. Under Reference:		(R) Railroad beneath struct.
54B Min. Vert. Underclearance:		0.000 ft
55A Lateral Under Reference:		(R) Railroad beneath struct.
55B Min. Lat. Underclearance R:		34.449 ft
56 Min. Lat. Underclearance L:		0.000 ft

LOAD RATINGS		
63 Operating Type:		(2) Allowable Stress (AS)
64 Operating Rating:		22.0 tons
65 Inventory Type:		(2) Allowable Stress (AS)
66 Inventory Rating:		15.0 tons
Truck Capacity Type I:		28 tons
Truck Capacity Type II:		30 tons
Truck Capacity Type III:		33 tons
Truck Capacity Type IV:		40 tons

POSTINGS		
41 Posting Status:		(A) Open, No Restriction
Signs Posted Cardinal:		No
Signs Posted Non-Cardinal:		No
Field Postings Gross:		-1 tons
Field Postings Type I:		-1 tons
Field Postings Type II:		-1 tons
Field Postings Type III:		-1 tons
Field Postings Type IV:		-1 tons

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12: Re Concrete Deck									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	4,637.2	4,637.2	100%	0	0%	0	0%	0	0%
The deck is scaling and has minor diagonal and transversal cracking throughout.									

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	4,642.58	4,642.58	100%	0	0%	0	0%	0	0%
(Empty description row)									

107: Steel Opn Girder/Beam									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	846	0	0%	846	100%	0	0%	0	0%
There is minor/moderate rust forming on the beams throughout the structure. Bridge has heavy flaking and needs painted.									

515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	0.3	0.3	100%	0	0%	0	0%	0	0%
(Empty description row)									

213: Masonry Pier Wall									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	8	0	0%	8	100%	0	0%	0	0%
Steel frame piers have minor to moderate rust. The steel connection plates that hold the frame bracing to the frame legs hold water and debris and has resulted in the formation of pack and flake rust and some minor section loss.									

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215: Re Conc Abutment

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	64	56	88%	6	9%	2	3%	0	0%

The abutments are discolored and have some horizontal and vertical cracking. There is a spall with rebar exposed on Abutment 2.

303: Assem Jnt With Seal

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	44	0	0%	22	50%	0	0%	22	50%

Joint at Abutment 4 has broken free from anchorage and the bottom of the sliding plate joint on the fixed end has been removed to prevent further damage to the abutment. Joint over abutment 1 is showing signs of anchorage failure as well and needs to be closely monitored.

311: Moveable Bearing

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
EACH	8	0	0%	7	88%	0	0%	1	13%

Paint has failed and moderate pack rust is presents. Rockers need celaned and painted or greased.

515: Steel Protective Coating

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
EACH	0.09	0.09	100%	0	0%	0	0%	0	0%

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313: Fixed Bearing									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
EACH	8	0	0%	8	100%	0	0%	0	0%
The rocker on beam 4 @ abutment 2 is in serious need of maintenance. There is severe rust formation on the rocker with paint failure.									

515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
EACH	0.09	0.09	100%	0	0%	0	0%	0	0%

330: Metal Bridge Railing									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	423	0	0%	423	100%	0	0%	0	0%
Paint has failed and rail is developing surface rust.									

515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	0.3	0.3	100%	0	0%	0	0%	0	0%

803: Curb									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	423	423	100%	0	0%	0	0%	0	0%
Minor scale throughout.									

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859: Vegetation									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%
Vegetation needs cut and sprayed.									

STRUCTURE NOTES
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INSPECTION NOTES
This inspection was performed by hydra-platform to gain access to span 2. Myself(Evan Dick), Russell Hines, and Harry Greer were present on the inspection.

WORK
Action: -